Abstract

A servo-valve (3) for a fuel injector (1) equipped with a pressure booster (2) whose working chamber (7) is separated from a differential pressure chamber (8) by a booster piston (10, 11); an actuator (4) can connect a control chamber (33) of the servo-valve (3) to a first low-pressure return (35); and the differential pressure chamber (8) of the pressure booster (2) can be connected to a second low-pressure return (37) or to a return system in which the returns (35, 37) are connected to each other. A first servo-valve piston (30) is provided with a first sealing seat (38). A second servo-valve piston (41), which is embodied in the form of a sealing sleeve, is accommodated on the first servo-valve piston (30) and, together with a valve housing (29), constitutes a second sealing seat (50). When the pressure in the control chamber (33) is relieved, this second sealing seat (50) is closed with a shorter stroke, sooner than the first sealing seat (38). When the control chamber (33) is subjected to pressure, the second sealing seat (50) opens only after the first sealing seat (38) is closed.

(Fig. 1)